WHAT IS CLAIMED IS:

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A method of performing a cardiac procedure, comprising the steps of:

- (a) making a subxiphoid incision to provide an entry point for an endoscopic cannula, wherein said endoscopic cannula has at least one access port;
 - (b) inserting said endoscopic cannula into the incision;
- (c) advancing said endoscopic cannula to the pericardium under endoscopic visualization; and
- (d) advancing a surgical instrument through said at least one access port of said endoscopic cannula.
- 2. A method according to claim 1, further comprising the steps of:

(e) after step (c) and before step (d), providing an opening in the pericardium for the advancement of said endoscopic cannula into the pericardium;

- (f) after step (e) and before step (d), advancing said endoscopic cannula into the pericardium through said opening; and
 - (g) after step (d), performing the surgical procedure on the heart.
- 3. The method of claim 1, wherein the subxiphoid incision has a length no longer than required for insertion of the endoscopic cannula.
- 25 4. The method of claim 1, wherein only a single subxiphoid incision is made.
 - 5. The method of claim 1, wherein at least one additional subxiphoid incision is made during step (a), and the method also includes the step of:
 - (e) inserting an additional surgical instrument through said at least one additional incision.

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The method of claim 1, further comprising:

- (e) before step (b), using a dilation tool to provide a dilated cavity to facilitate insertion of the endoscopic cannula.
- 5 7. The method of claim 2, wherein said opening in the pericardium is provided by manipulating a pericardial entry instrument.
 - 8. The method of claim 7, wherein the endoscopic cannula has a lumen and the pericardial entry instrument is advanced to the pericardium through the lumen.
 - 9. The method of claim 1, wherein said surgical instrument advanced in step (d) is a stapler for stapling off the atrial appendage.
- 15 10. The method of claim 1, wherein said surgical instrument advanced in step (d) is an ablation device.
 - 11. The method of claim 1, wherein said surgical instrument advanced in step (d) is a device for performing epicardial mapping.

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- 12. The method of claim 1, wherein said surgical instrument advanced in step (d) is a device for performing intrapericardial drug delivery.
- 13. The method of claim 1, wherein said surgical instrument advanced in step (d) is a device for performing a myocardial biopsy.
 - 14. The method of claim 1, wherein said surgical instrument advanced in step (d) is a device for performing encardial mapping.

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15. The method of claim 1, wherein said surgical instrument advanced in step (d) is a needle for injecting cardiac muscle cells or undifferentiated satellite cells for cellular cardiomyoplasty.

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- 6. The method of claim 1, wherein said surgical instrument advanced in step (d) is a cannula for injecting pharmacological agents for angiogenesis.
- 5 17. The method of claim 1, wherein said surgical instrument advanced in step (d) is a robotic, cutting, stabilizing, or anastomotic instrument for performing coronary artery bypass or coronary artery bypass grafting.
- 18. The method of claim 1, wherein said surgical instrument advanced in
 step (d) is an energy probe or mechanical piercing element for piercing the heart muscle for transmyocardial revascularization.
 - 19. The method of claim 1, wherein said surgical instrument advanced in step (d) is a device for creating a pericardial window.

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- 20. The method of claim 1, wherein said surgical instrument advanced in step (d) is a stapler for stapling off the atrial appendage.
- 21. The method of claim 1, wherein said surgical instrument advanced in step (d) is a suture loop for cinching off the atrial appendage.
 - 22. The method of claim 1, wherein said surgical instrument advanced in step (d) is a clip for sealing off the atrial appendage.
- 25 23. The method of claim 2, wherein said endoscopic cannula is advanced during step (f) to a location near the apex of the heart.
 - 24. The method of claim 2, wherein the endoscopic cannula is advanced during step (f) to a location at the anterior region of the heart and is then swept to the posterior region of the heart.
 - 25. The method of claim 2, wherein step (e) includes the steps of:

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gripping a flap of the pericardium under endoscopic visualization using a pericardial entry instrument; and

cutting said flap of the pericardium to create an opening in the pericardium under endoscopic visualization.

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26. The method of claim 25, wherein step (e) further comprises the step of: aligning the pericardial entry instrument substantially tangentially to the pericardium under endoscopic visualization while gripping the flap of the pericardium.

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- 27. The method of claim 25, wherein the cutting step further comprises cutting the flap of the pericardium away from the underlying heart.
- 28. A method of performing a surgical procedure on a mediastinal organ other than the heart, comprising the steps of:
 - (a) making a subxiphoid incision to provide an entry point for an endoscopic cannula, wherein said endoscopic cannula has at least one access port;
 - (b) inserting said endoscopic cannula into the incision;

- (c) advancing said endoscopic cannula to a surgical site within the mediastinum under endoscopic visualization; and
- (d) advancing a surgical instrument through said at least one access port of said endoscopic cannula.
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- 29. The method of claim 28, further comprising the step of:
 - (e) after step (d), performing the surgical procedure on said mediastinal organ.
- 30. The method of claim 28, wherein the subxiphoid incision has a length no longer than required for insertion of the endoscopic cannula.

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- The method of claim 28, wherein only a single subxiphoid incision is le.
- 32. The method of claim 28, wherein at least one additional subxiphoid incision is made during step (a), and the method also includes the step of:
- (e) inserting an additional surgical instrument through said at least one additional incision.
- 33. The method of claim 28, further comprising:
- 10 (e) before step (b), using a dilation tool to provide a dilated cavity to facilitate insertion of the endoscopic cannula.
 - 34. A method of performing a cardiac procedure with an endoscopic cannula having an expandable sheath overlying the cannula, comprising:
 - (a) incising skin overlying an entry point for the cardiac procedures;
 - (b) inserting an endoscopic cannula with an expandable sheath into the incision;
 - (c) advancing the endoscopic cannula to the pericardium under endoscopic visualization; and
 - (d) dilating a working cavity responsive to passing the cannula through the expandable sheath.
 - 35. The method of claim 34 wherein dilating further comprises: dilating a working cavity responsive to removing the cannula to a point near the proximal end of the expandable sheath.
 - 36. The method of claim 34 further comprising the step of:
 - (e) dilating the working cavity to larger dimensions responsive to insertion of surgical tools having dimensions greater than the cannula into the expandable sheath.

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The method of claim 34 further comprising the steps of:

- (e) inserting a surgical tool for performing a cardiac procedure into a proximate end of the expandable sheath in which the surgical tool has a maximal dimension greater than a maximal dimension of the expandable sheath overlying the cannula;
- (f) advancing the surgical tool within the expandable sheath to a distal end of the expandable sheath; and
 - (g) performing a cardiac procedure using the surgical tool.

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- 38. An endoscopic cannula, comprising:
- a cannula, having an elongated body having arcuate shape and defining at least one lumen;
- a tip positioned at a distal end of said elongated body, said tip having a tapered distal end and being transparent for facilitating visualization through said tip; and

an endoscope, positioned at least partially in said at least one lumen for providing visualization of a surgical procedure through said transparent tapered tip.

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39. The endoscopic cannula of claim 38, wherein said cannula is composed of a flexible material.